Lab ID : **CP-2020-06-17-04** **Date: 13-05-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	404	202	199	
2	401	201	202	
3	402	201	201	
4	399	200	201	
5	403	201	203	
6	399	201	201	
7	403	201	202	
8	402	200	201	
9	403	201	199	
10	402	202	199	
11	400	202	201	**Length : ± 5mm** **Breadth : ± 3mm** **Height : ± 3mm**
12	400	200	200	
13	400	199	203	
14	401	202	203	
15	402	203	202	
16	403	201	203	
17	401	200	201	
18	399	201	200	
19	403	203	203	
20	400	203	202	
Average of 20	**401**	**201**	**201**	

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Lab ID : **CP-2020-06-17-04** **Date: 13-05-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	202	80908	417.6	5.2	5.2
2	401	201	80350	415.2	5.2	
3	402	201	80824	417.3	5.2	
4	399	200	79912	415.5	5.2	
5	403	201	80953	417.9	5.2	
6	399	201	80136	413.6	5.2	
7	403	201	81086	414.1	5.1	
8	402	200	80452	417.4	5.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-06-17-04** **Date: 26-02-20**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 25-02-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 25-02-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	20	2.476	584	693	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	25	3.472	597	712	18.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 12/05/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 07-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	05/05/2020	12/05/2020	151.73 X 150.27 X 149.65	22802	**8.103**	294.6	12.9	12.8
2	PCC	M15	05/05/2020	12/05/2020	150.21 X 149.22 X 151.38	22414	**8.971**	285.4	12.7	
3	PCC	M15	05/05/2020	12/05/2020	151.42 X 150.51 X 151.24	22790	**8.277**	288.7	12.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 02/06/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 07-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	05/05/2020	02/06/2020	151.87 X 151.75 X 149.91	23047	**8.885**	401.7	17.4	17.3
2	PCC	M15	05/05/2020	02/06/2020	151.56 X 149.21 X 150.85	22615	**8.805**	384.5	17.0	
3	PCC	M15	05/05/2020	02/06/2020	149.72 X 151.31 X 149.30	22655	**8.083**	395.2	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 12/05/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 07-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	05/05/2020	12/05/2020	150.47 X 150.62 X 150.28	22663	**8.103**	291.7	12.9	12.4
2	PCC	M15	05/05/2020	12/05/2020	151.61 X 149.34 X 151.87	22641	**8.971**	281.4	12.4	
3	PCC	M15	05/05/2020	12/05/2020	150.53 X 149.35 X 149.08	22482	**8.277**	269.9	12.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/06/2020

Lab ID : **CP-2020-06-17-04**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 07-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	05/05/2020	02/06/2020	149.17 X 150.04 X 151.30	22380	**8.885**	391.4	17.5	17.5
2	PCC	M15	05/05/2020	02/06/2020	151.04 X 150.59 X 151.31	22745	**8.805**	398.9	17.5	
3	PCC	M15	05/05/2020	02/06/2020	149.64 X 150.41 X 149.40	22506	**8.083**	392.5	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04**

Date: 12/05/2020

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 07-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	05/05/2020	12/05/2020	151.62 X 150.09 X 151.29	22756	8.103	282.5	12.4	12.5
2	PCC	M15	05/05/2020	12/05/2020	151.96 X 149.11 X 150.82	22659	8.971	286.2	12.6	
3	PCC	M15	05/05/2020	12/05/2020	149.81 X 151.91 X 151.19	22758	8.277	281.9	12.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 02/06/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 07-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	05/05/2020	02/06/2020	149.37 X 151.10 X 150.68	22570	**8.885**	384.1	17.0	17.4
2	PCC	M15	05/05/2020	02/06/2020	151.72 X 149.62 X 150.66	22701	**8.805**	405.6	17.9	
3	PCC	M15	05/05/2020	02/06/2020	151.28 X 150.09 X 149.41	22706	**8.083**	390.1	17.2	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-06-17-04** **Date: 22-02-20**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 20-02-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 20-02-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-06-17-04** **Date: 19-03-20**
Project Name	:	Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03
Agency	:	Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/158/19-20
Date of Receipt	:	20-02-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	20-02-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-06-17-04** **Date: 22-02-20**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 20-02-20

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 19-02-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-06-17-04** **Date: 22-02-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.17	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-06-17-04** **Date: 22-02-20**
Project Name	:	Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03
Agency	:	Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer Reference	:	EE(Project)/Ynk Zone/WO/158/19-20
Date of Receipt	:	20-02-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-02-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	_

Sri Anjanadeya

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-06-17-04** **Date: 22-02-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.19	–
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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QC ABSTRACT

NAME OF WORK: Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	8 set /200-250 cum	220.74	16	16
8	PCC(M20)	Compressive Strength(7days and 28days)	1 set /1-5 cum	5.66	2	2
9	RCC(M20)	Compressive Strength(7days and 28days)	13 set /450-500 cum	497.22	26	26

10	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
11	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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